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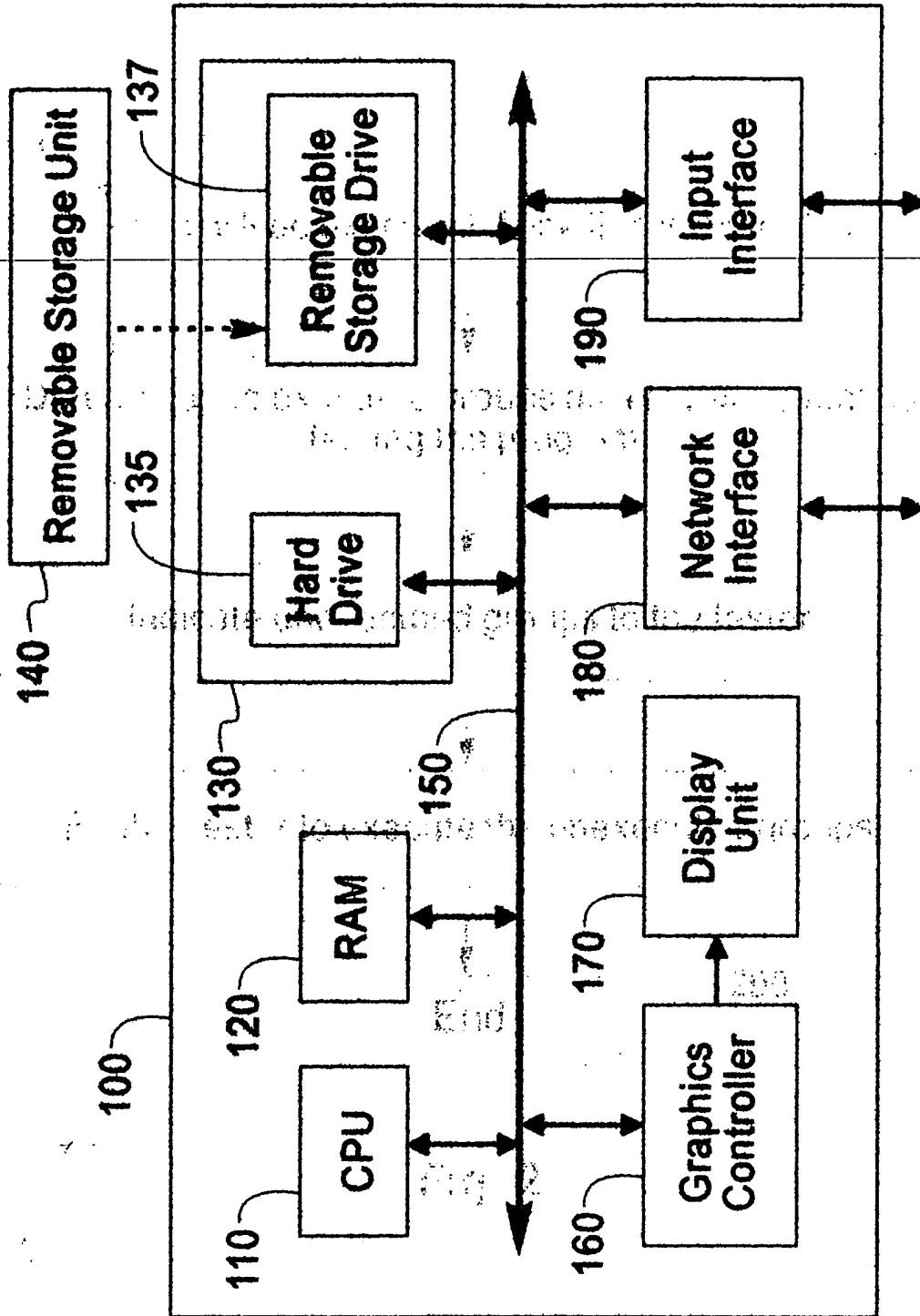


Fig. 1

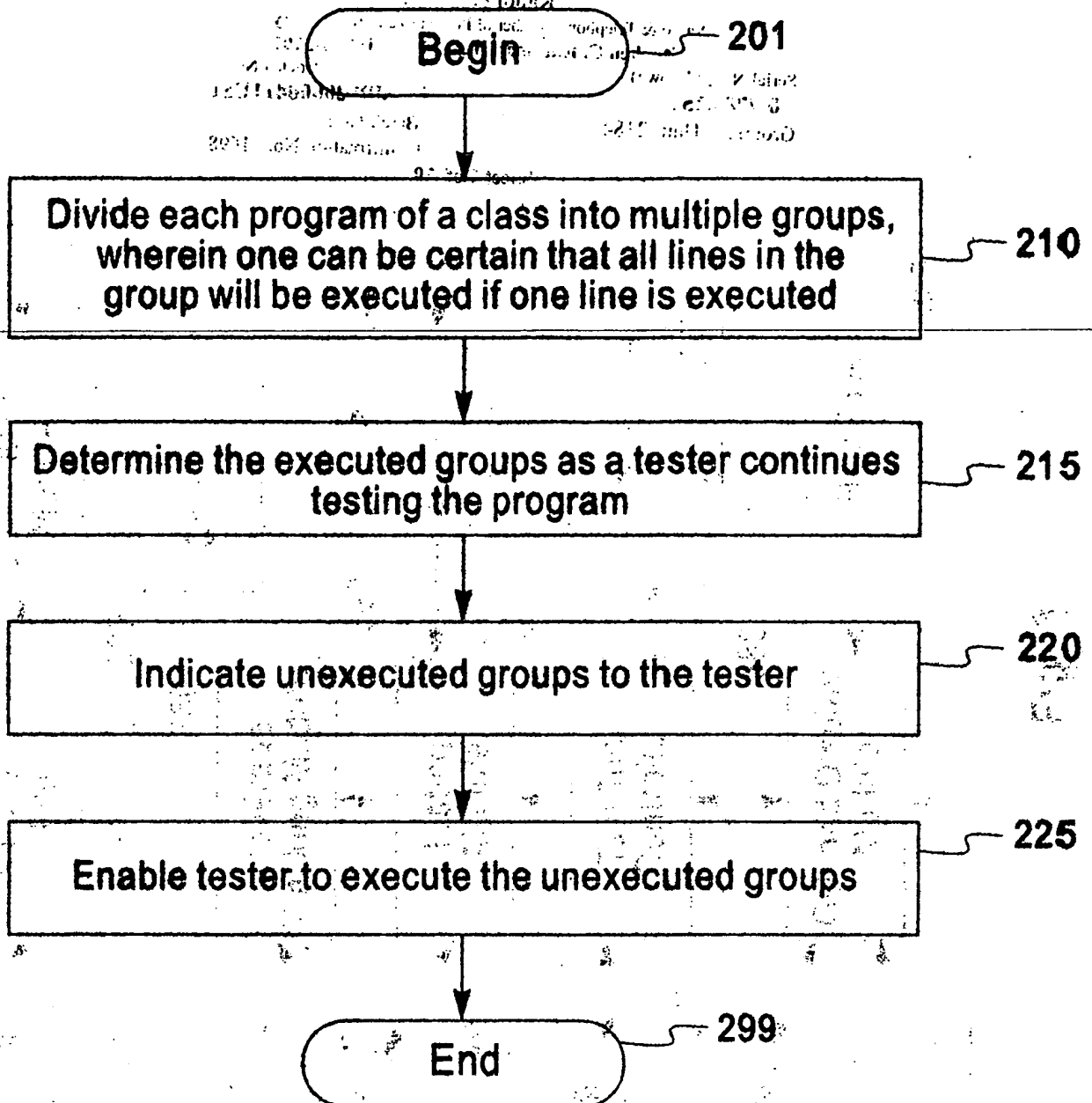


Fig. 2

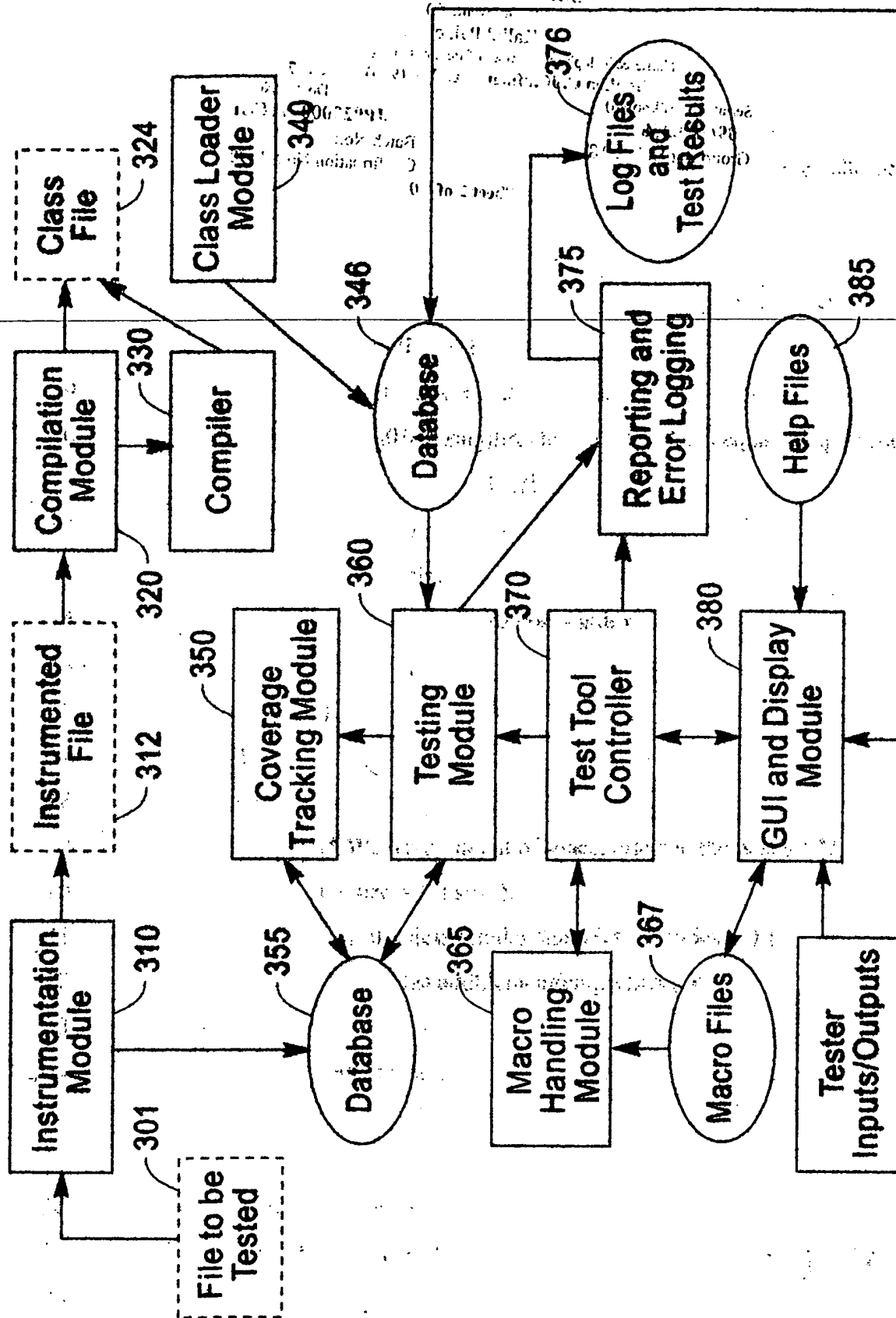


Fig. 3

```
1 public void addString(String inStr) {
2     /* The location where the string needs to be set */
3     int setPos = -1;
4     /* Check the size to see if the next set needs to be allocated */
5     if (list.size() > 0 &&
6         (String)(list.elementAt(list.size()-1))).equals(emptyString) ) {
7         /* We still have empty space, get the first empty slot */
8         int totalRec = list.size();
9         for(int index=totalRec-1;index >= 0;index--) {
10             if(!((String)list.elementAt(index)).equals(emptyString)) {
11                 break;
12             }
13             else {
14                 setPos = index;
15             }
16         }
17     }
18     else {
19         /* We have run out of space, allocate the next set */
20         int size = list.size();
21         for(int index=0;index<numSetVal;index++) {
22             list.addElement(emptyString);
23         }
24         setPos = size;
25     }
26     /* Add the element */
27     list.setElementAt(inStr,setPos);
28 }
```

Fig. 4A

```
1 public void addString(String inStr) {
2     /* INSTRUMENTATION Group B11 - BEGIN */
3     Wiz_Tracer.trackExecution("WizStringList",11);
4     /* INSTRUMENTATION GROUP B11 - END */
5     int setPos = -1;
6     if (list.size() > 0 && (
7         (String)(list.elementAt(list.size()-1))).equals(emptyString) )
8     { /*INSTRUMENTATION GROUP B12 - BEGIN */
9         Wiz_Tracer.trackExecution("WizStringList",12);
10        /* INSTRUMENTATION GROUP B12 - END */
11        int totalRec = list.size();
12        for(int index=totalRec-1;index >= 0;index--) {
13            /* INSTRUMENTATION GROUP B13 - BEGIN */
14            Wiz_Tracer.trackExecution("WizStringList",13);
15            /* INSTRUMENTATION GROUP B13 - END */
16            if(!((String)list.elementAt(index)).equals(emptyString)) {
17                /* INSTRUMENTATION GROUP B14 - BEGIN */
18                Wiz_Tracer.trackExecution("WizStringList",14);
19                /* INSTRUMENTATION GROUP B14 - END */
20                break;
21            } /* < if GROUP(B14) ends at line : 134 > */
```

Fig. 4B

```
22         else { /* <else GROUP(B15) begins at line : 135> */
23             /* INSTRUMENTATION GROUP B15 - BEGIN */
24             Wiz_Tracer.trackExecution("WizStringList",15);
25             /* INSTRUMENTATION GROUP B15 - END */
26             setPos = index;
27         } /* <else block(B15) ends at line : 138> */
28         /* <break(B16) begins at line : 139> */
29         /* INSTRUMENTATION GROUP B16 - BEGIN */
30         Wiz_Tracer.trackExecution("WizStringList",16);
31         /* INSTRUMENTATION GROUP B16 - END */
32     } /* <for block(B13) ends at line : 139> */
33 } /* <if block(B12) ends at line : 141> */
34 else { /* <else block(B17) begins at line : 142> */
35     /* INSTRUMENTATION GROUP B17 - BEGIN */
36     Wiz_Tracer.trackExecution("WizStringList",17);
37     /* INSTRUMENTATION GROUP B17 - END */
38     int size = list.size();
39     for(int index=0;index<numSetVal;index++) { /* <for
40         block(B18) begins at line : 146> */
41         /* INSTRUMENTATION GROUP B18 - BEGIN */
42         Wiz_Tracer.trackExecution("WizStringList",18);
43         /* INSTRUMENTATION GROUP B18 - END */
44         list.addElement(emptyString);
45     } /* <for block(B18) ends at line : 149> */
46     setPos = size;
47 } /* <else block(B17) ends at line : 152> */
48 list.setElementAt(inStr,setPos);
49 } /* <method block - addString(B11) ends at line : 156> */
```

Fig. 4C

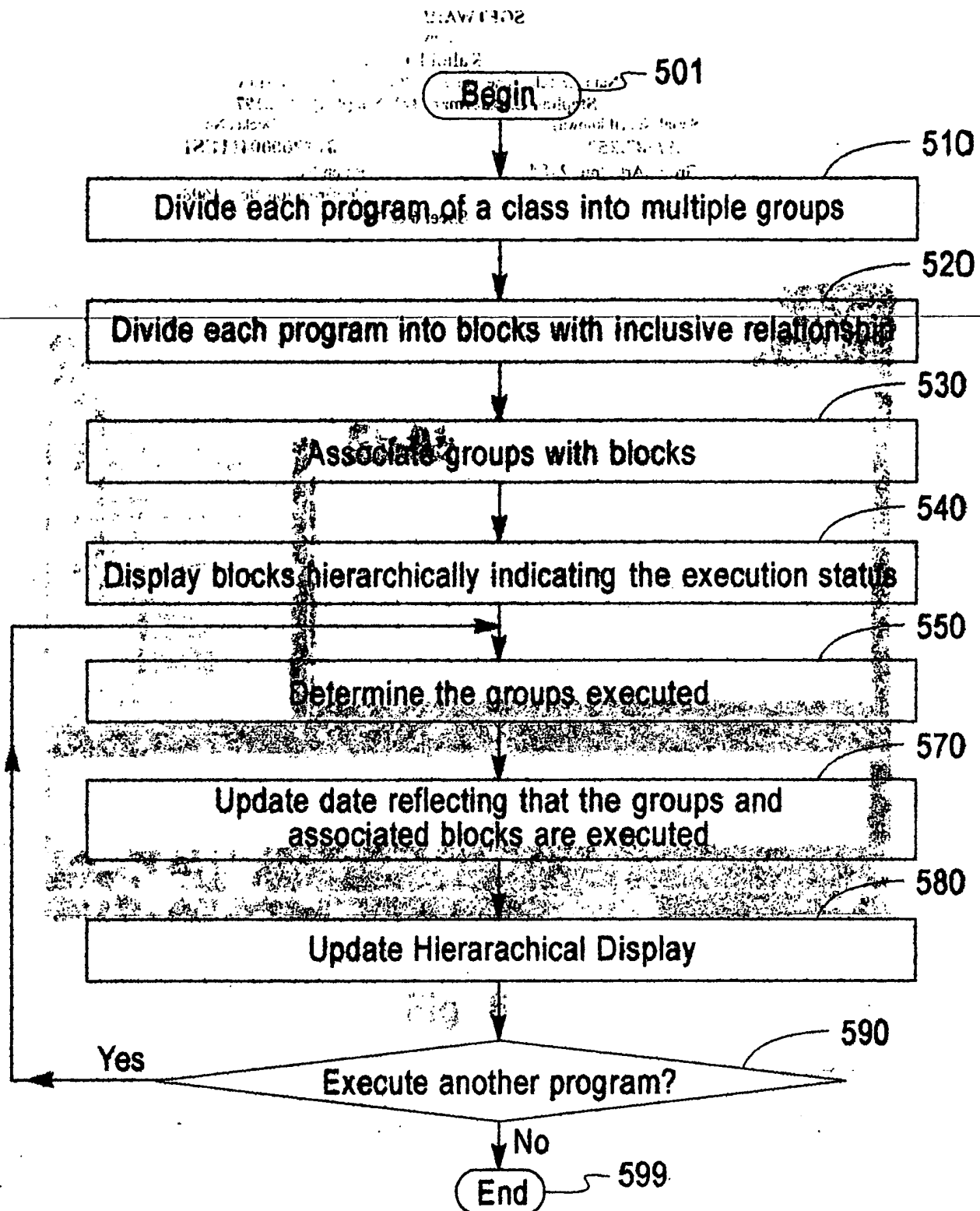


Fig. 5

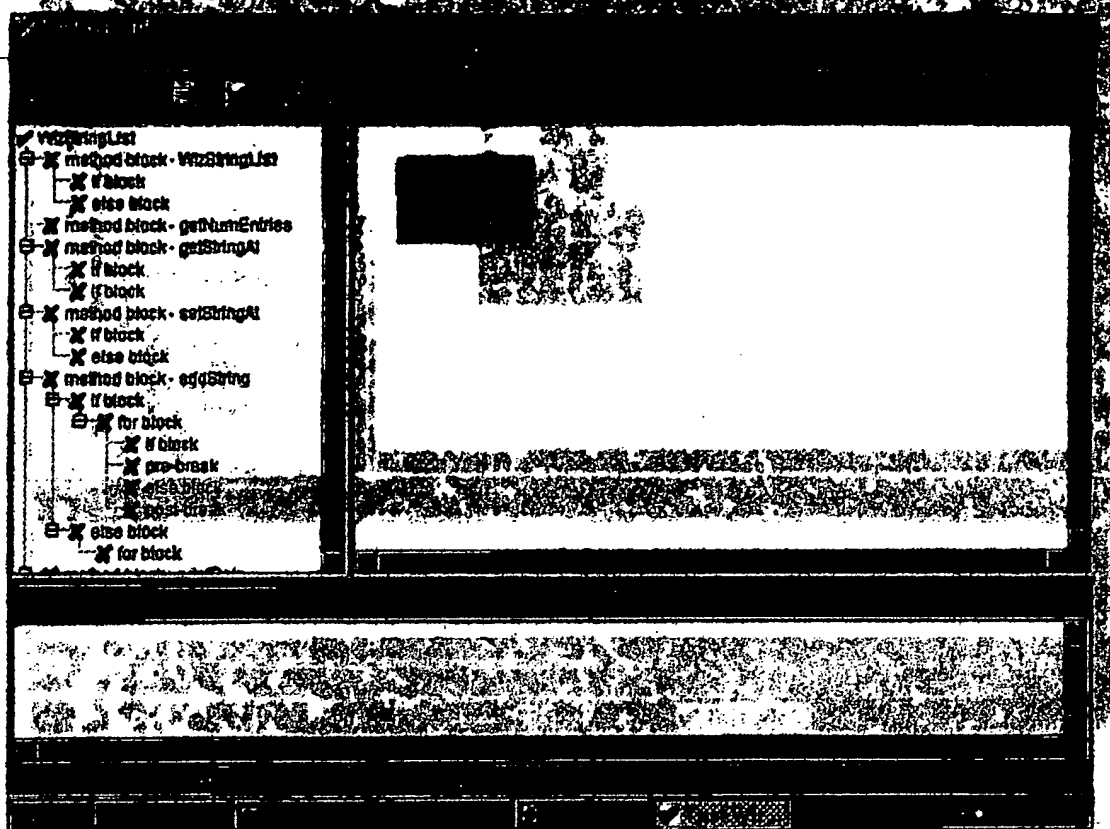


Fig. 6

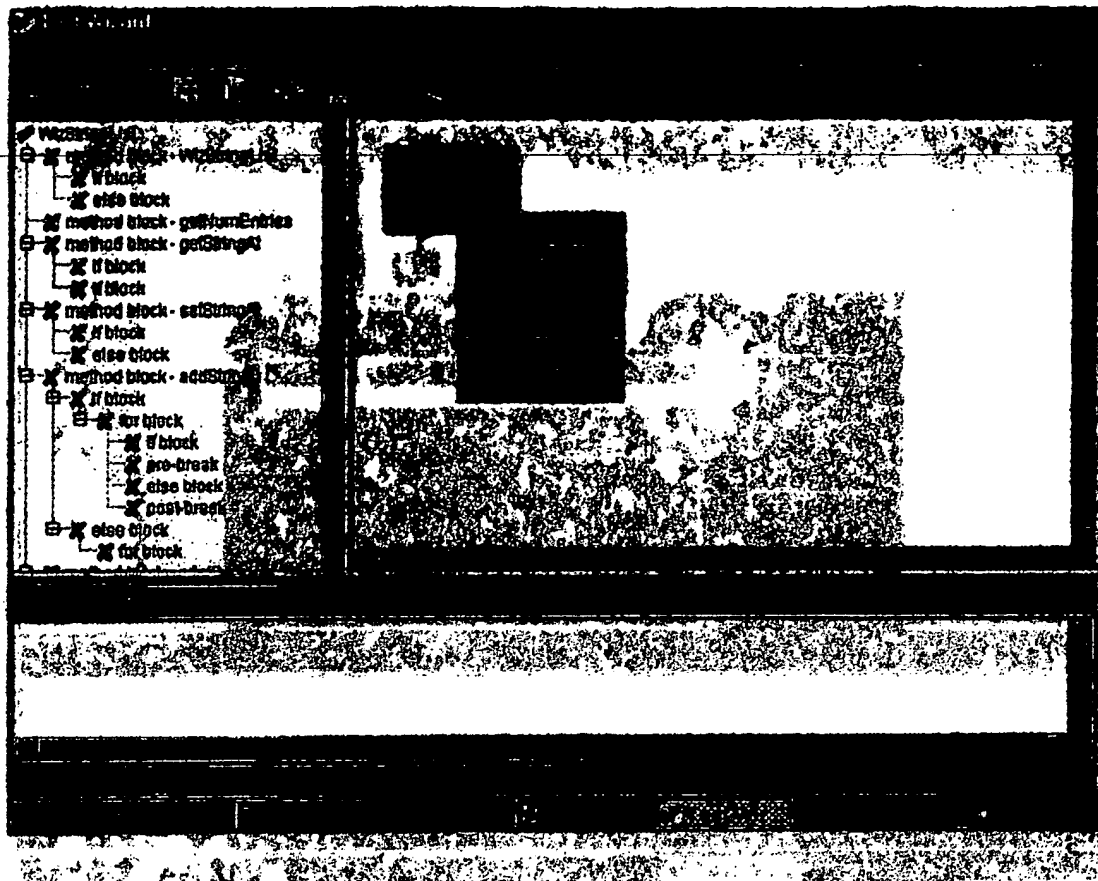


Fig. 7A

Fig. 7B

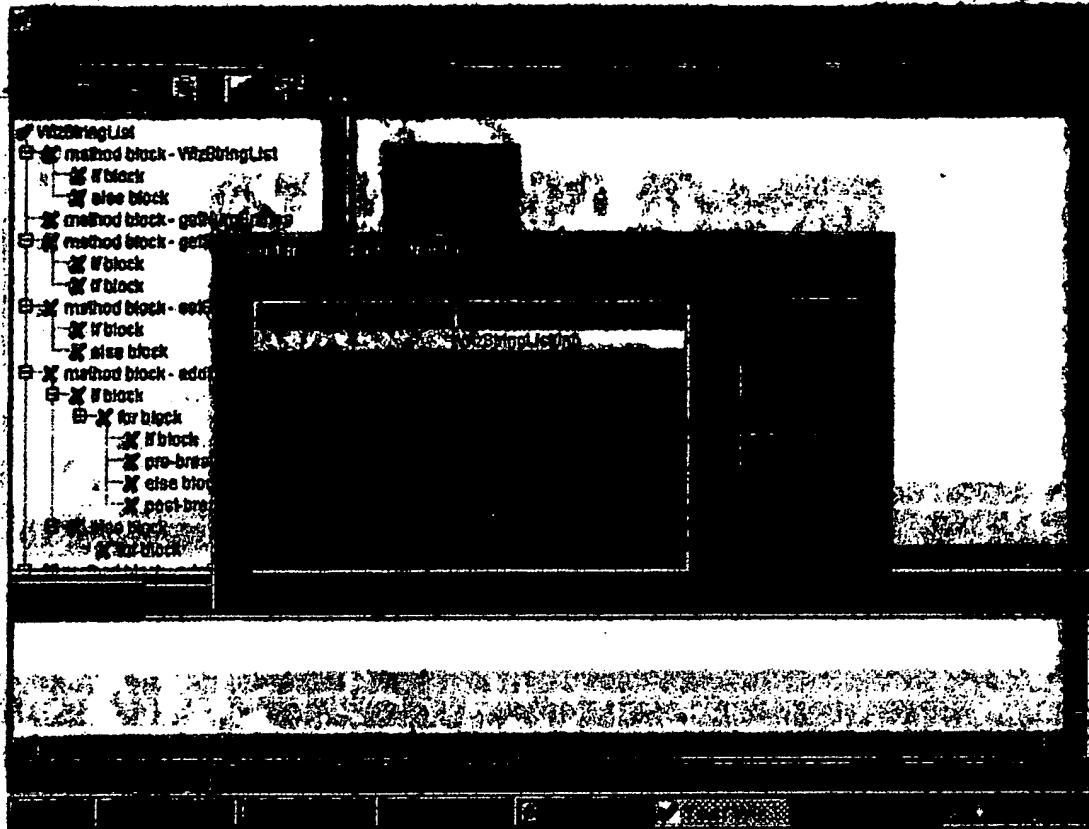


Fig. 7C

Fig. 7B

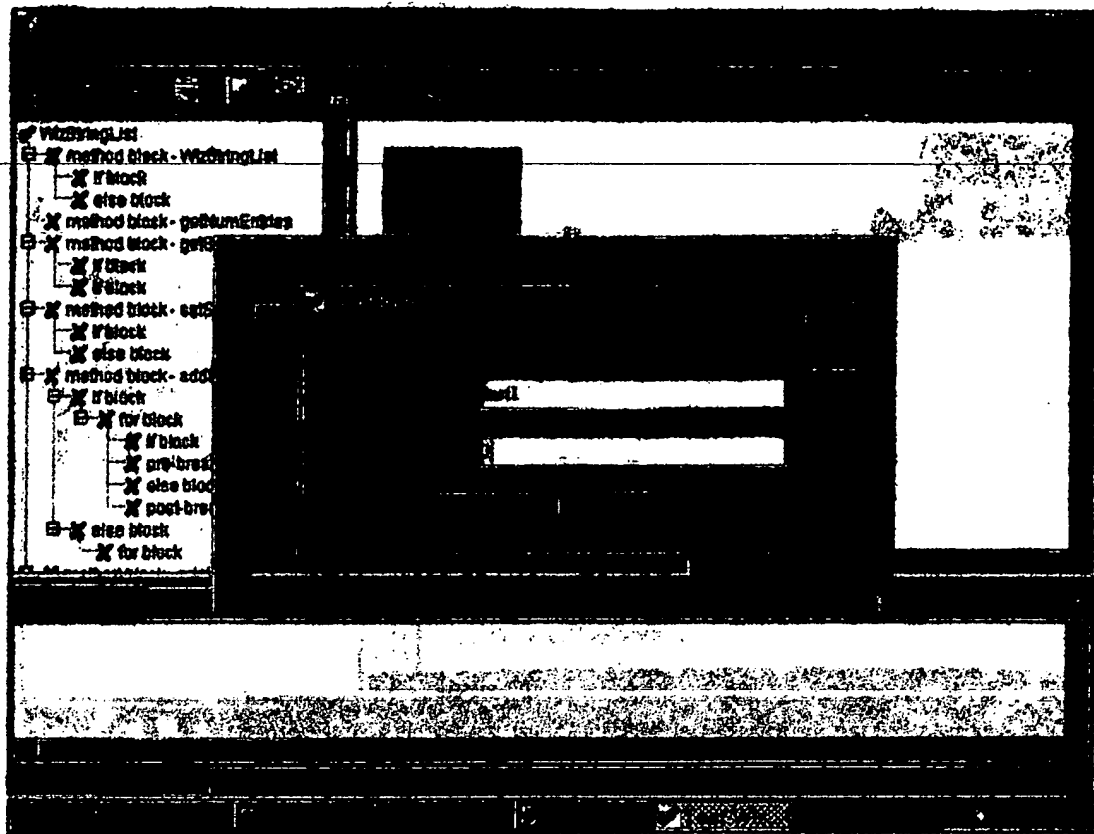


Fig. 7C

Fig. 8

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Fig. 8

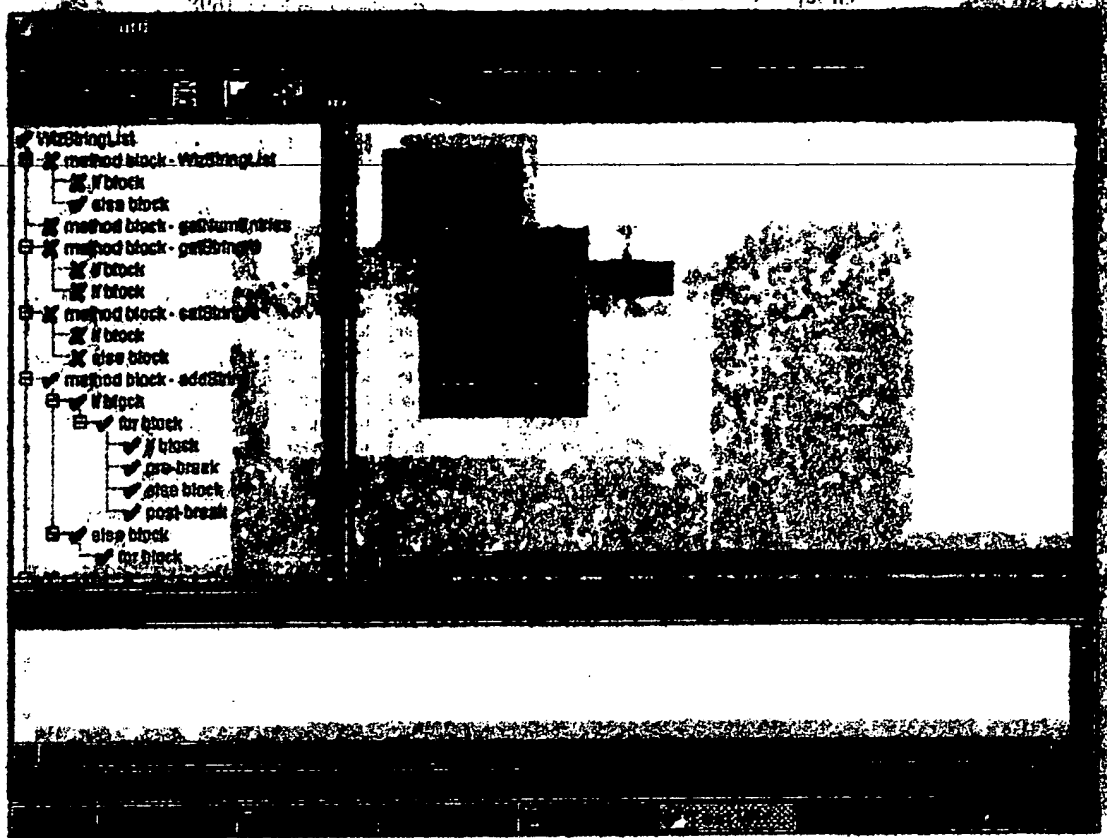


Fig. 9A

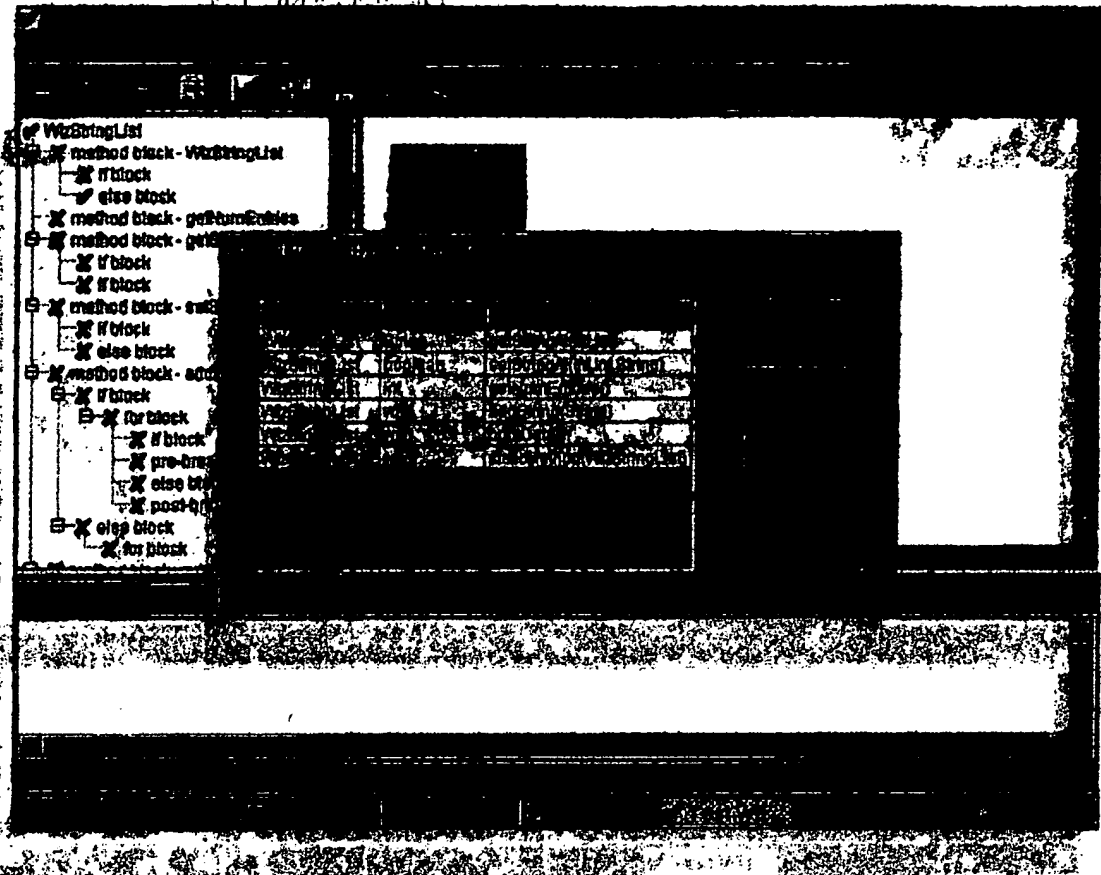


Fig. 9B

Fig. 9C

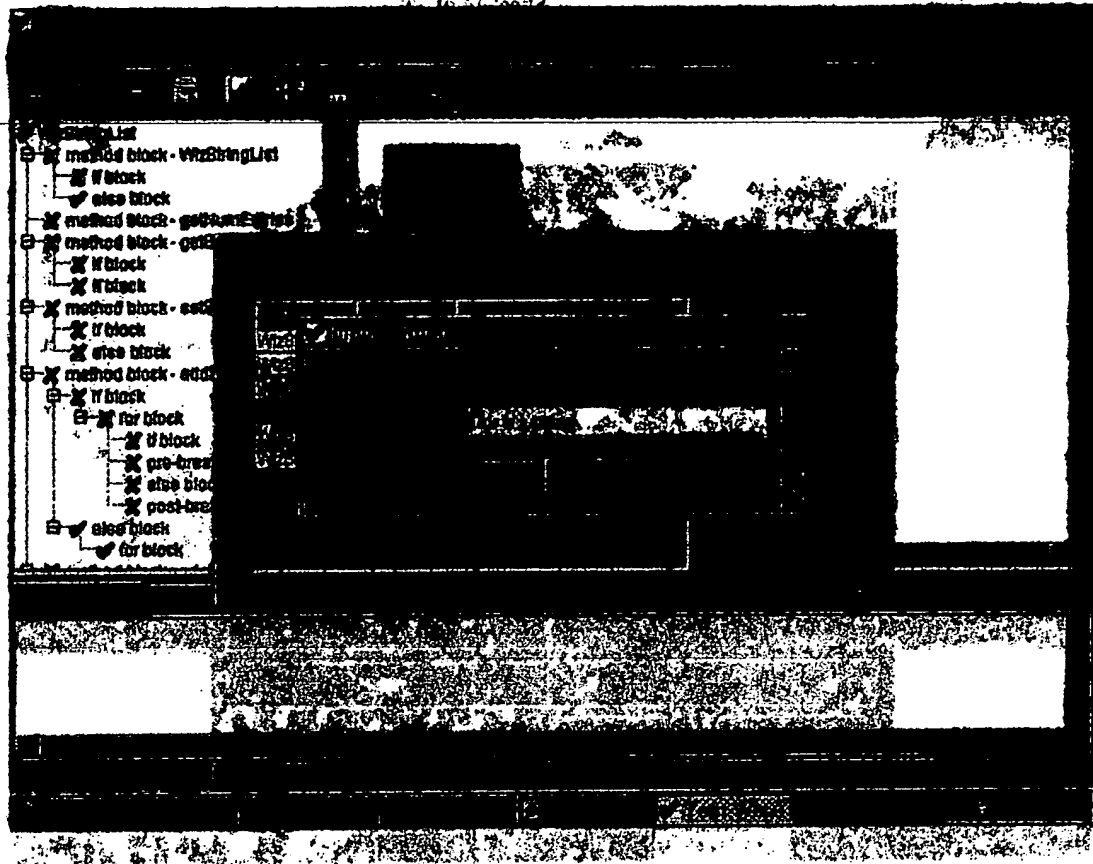


Fig. 9C

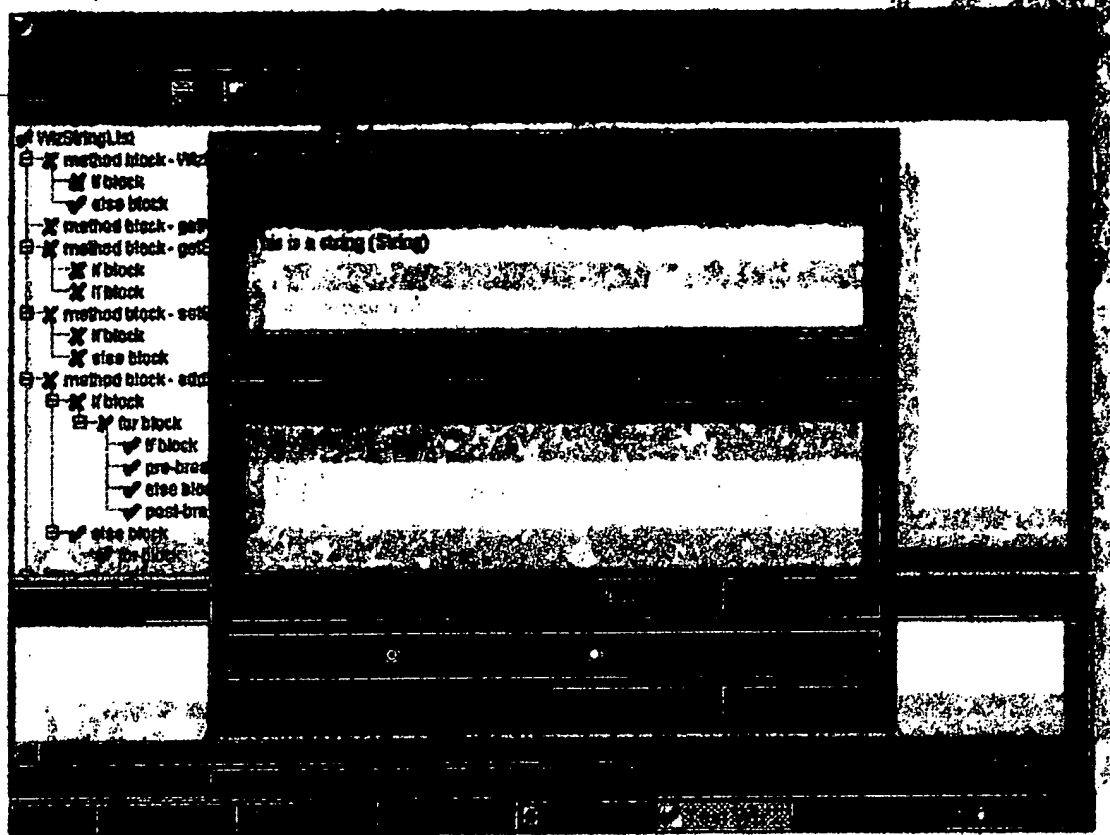


Fig. 10
Fig. 9D

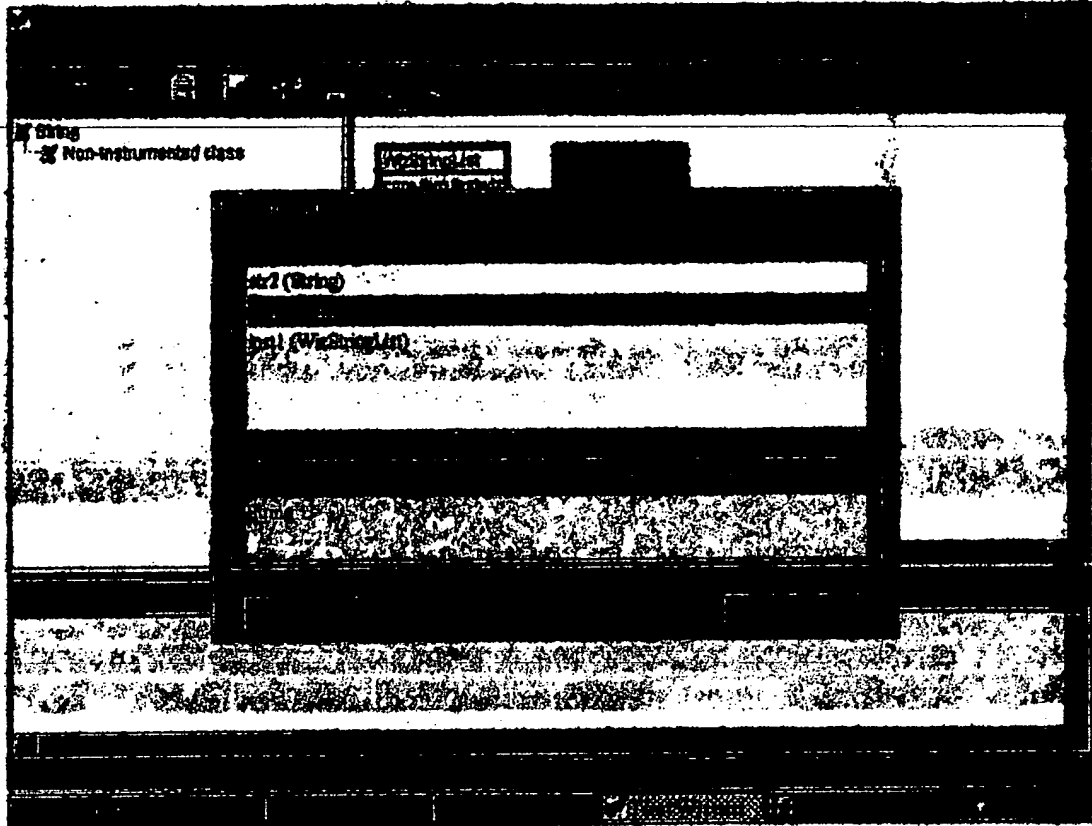
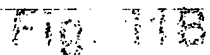


Fig. 10



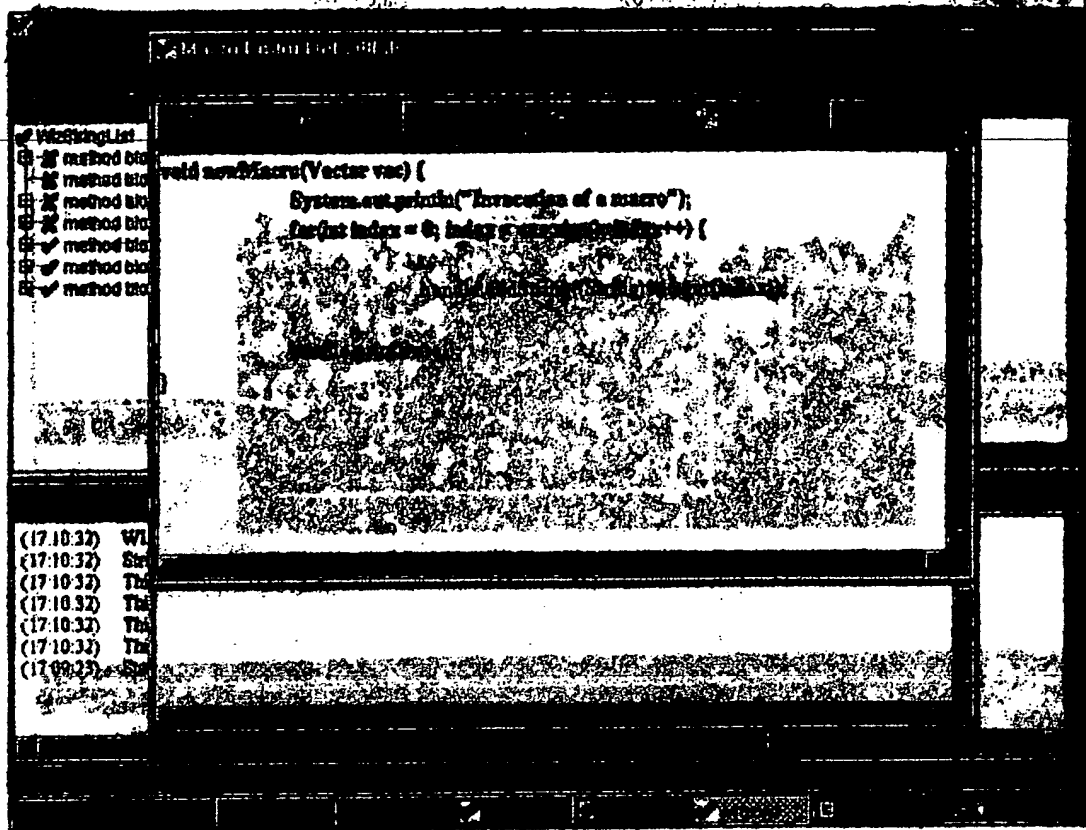


Fig. 11C
Fig. 11B

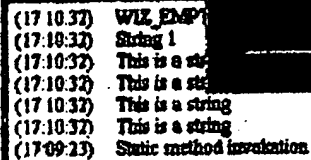


Fig. 11C